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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-08-29-100 **Date: 24-06-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads at KHB Colony Near Railway Track Near Ab Shivakumar House Road in Kempegowda Ward No 01.
Agency	:	Sri.Tulsiram Reddy, No.131, Kaveri Nagar, 4th Cross, Kavalu Byrasandra, R.T.Nagara(Post), Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/10/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-06-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	27.5	Not specified
5	Initial Setting time	180 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-08-29-100** **Date: 20-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads at KHB Colony Near Railway Track Near Ab Shivakumar House Road in Kempegowda Ward No 01.
Agency	:	Sri.Tulsiram Reddy, No.131, Kaveri Nagar, 4th Cross, Kavalu Byrasandra, R.T.Nagara(Post), Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/10/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	22-06-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-08-29-100** **Date: 24-06-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads at KHB Colony Near Railway Track Near Ab Shivakumar House Road in Kempegowda Ward No 01.
Agency	:	Sri.Tulsiram Reddy, No.131, Kaveri Nagar, 4th Cross, Kavalu Byrasandra, R.T.Nagara(Post), Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/10/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	21-06-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-06-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	751	751	5.0	95.0	90-100
3	20 mm	6598	7349	49.0	51.0	30-70
4	10 mm	4751	12100	80.7	19.3	10-35
5	4.75 mm	2593	14693	98.0	2.0	0-5
6	Pan	307	15000	100.0	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-08-29-100 **Date: 24-06-19**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads at KHB Colony Near Railway Track Near Ab Shivakumar House Road in Kempegowda Ward No 01.

Agency : Sri.Tulsiram Reddy, No.131, Kaveri Nagar, 4th Cross, Kavalu Byrasandra, R.T.Nagara(Post), Bangalore-32.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/10/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-06-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 21-06-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-08-29-100** **Date: 26-06-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads at KHB Colony Near Railway Track Near Ab Shivakumar House Road in Kempegowda Ward No 01.
Agency	:	Sri.Tulsiram Reddy, No.131, Kaveri Nagar, 4th Cross, Kavalu Byrasandra, R.T.Nagara(Post), Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/10/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-06-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	25-06-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-29-100 **Date: 09/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads at KHB Colony Near Railway Track Near Ab Shivakumar House Road in Kempegowda Ward No 01.

Agency : Sri.Tulsiram Reddy, No.131, Kaveri Nagar, 4th Cross, Kavalu Byrasandra, R.T.Nagara(Post), Bangalore-32.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/10/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-07-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	02/07/2019	09/07/2019	150.25 X 150.86 X 149.01	22667	8.010	420.5	18.6	18.3
2	Drain Bottom Slab Concrete	M20	02/07/2019	09/07/2019	149.70 X 151.70 X 150.46	22709	8.299	409.4	18.0	
3	Drain Bottom Slab Concrete	M20	02/07/2019	09/07/2019	150.14 X 151.53 X 151.85	22750	8.592	415.2	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-08-29-100** **Date: 15/07/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads at KHB Colony Near Railway Track Near Ab Shivakumar House Road in Kempegowda Ward No 01.
Agency	:	Sri.Tulsiram Reddy, No.131, Kaveri Nagar, 4th Cross, Kavalu Byrasandra, R.T.Nagara(Post), Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/10/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	08/07/2019	15/07/2019	151.96 X 151.26 X 149.72	22985	8.010	416.5	18.1	18.3
2	Drain Side Wall Concrete	M20	08/07/2019	15/07/2019	150.63 X 149.08 X 149.65	22455	8.299	416.6	18.6	
3	Drain Side Wall Concrete	M20	08/07/2019	15/07/2019	151.69 X 149.01 X 150.82	22604	8.592	408.8	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-08-29-100** **Date: 15/07/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads at KHB Colony Near Railway Track Near Ab Shivakumar House Road in Kempegowda Ward No 01.
Agency	:	Sri.Tulsiram Reddy, No.131, Kaveri Nagar, 4th Cross, Kavalu Byrasandra, R.T.Nagara(Post), Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/10/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	08/07/2019	15/07/2019	150.67 X 151.03 X 151.17	22756	8.010	412.8	18.1	18.2
2	Drain Side Wall Concrete	M20	08/07/2019	15/07/2019	150.89 X 149.17 X 149.44	22509	8.299	416.8	18.5	
3	Drain Side Wall Concrete	M20	08/07/2019	15/07/2019	151.67 X 151.17 X 151.92	22928	8.592	413.5	18.0	

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2019-08-29-100 **Date: 01-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads at KHB Colony Near Railway Track Near Ab Shivakumar House Road in Kempegowda Ward No 01.
Agency	:	Sri.Tulsiram Reddy, No.131, Kaveri Nagar, 4th Cross, Kavalu Byrasandra, R.T.Nagara(Post), Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/10/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-06-19
Sample Type /Size	:	Precast Cover Slab(100mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	27/06/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-08-29-100** **Date: 16/07/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads at KHB Colony Near Railway Track Near Ab Shivakumar House Road in Kempegowda Ward No 01.
Agency	:	Sri.Tulsiram Reddy, No.131, Kaveri Nagar, 4th Cross, Kavalu Byrasandra, R.T.Nagara(Post), Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/10/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	09/07/2019	16/07/2019	151.29 X 150.68 X 150.06	22796	8.381	590.6	25.9	25.9
2	Cement Concrete Pavement	M30	09/07/2019	16/07/2019	150.78 X 149.72 X 149.27	22575	8.075	601.8	26.7	
3	Cement Concrete Pavement	M30	09/07/2019	16/07/2019	150.20 X 149.90 X 151.60	22515	8.052	562.7	25.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-08-29-100** **Date: 16/07/2019**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads at KHB Colony Near Railway Track Near Ab Shivakumar House Road in Kempegowda Ward No 01.
Agency	:	Sri.Tulsiram Reddy, No.131, Kaveri Nagar, 4th Cross, Kavalu Byrasandra, R.T.Nagara(Post), Bangalore-32.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/10/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-07-19
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	09/07/2019	16/07/2019	151.89 X 149.04 X 150.48	22638	8.381	572.2	25.3	25.3
2	Cement Concrete Pavement	M30	09/07/2019	16/07/2019	149.75 X 150.40 X 151.06	22523	8.075	598.5	26.6	
3	Cement Concrete Pavement	M30	09/07/2019	16/07/2019	151.86 X 151.42 X 150.66	22995	8.052	552.6	24.0	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.
CIVIL Pro Sig Date BANGALORE
R RUDRAPRASAD
Authorized Signatory
Technical Manager

A.E.E

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-08-29-100 **Date: 06/08/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads at KHB Colony Near Railway Track Near Ab Shivakumar House Road in Kempegowda Ward No 01.

Agency : Sri.Tulsiram Reddy, No.131, Kaveri Nagar, 4th Cross, Kavalu Byrasandra, R.T.Nagara(Post), Bangalore-32.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/10/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-07-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	09/07/2019	06/08/2019	151.33 X 149.64 X 150.97	22645	8.502	759.6	33.5	33.1
2	Cement Concrete Pavement	M30	09/07/2019	06/08/2019	151.26 X 150.90 X 149.15	22826	8.205	741.1	32.5	
3	Cement Concrete Pavement	M30	09/07/2019	06/08/2019	149.50 X 151.34 X 151.58	22625	8.031	753.4	33.3	

Note:
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CIVIL Pro Sig Date BANGALORE

R RUDRAPRASAD
Authorized Signatory
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AE1

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****End of Report****

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